

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1311683

Luminaire Tested: LDSQA3D17R509040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509040DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

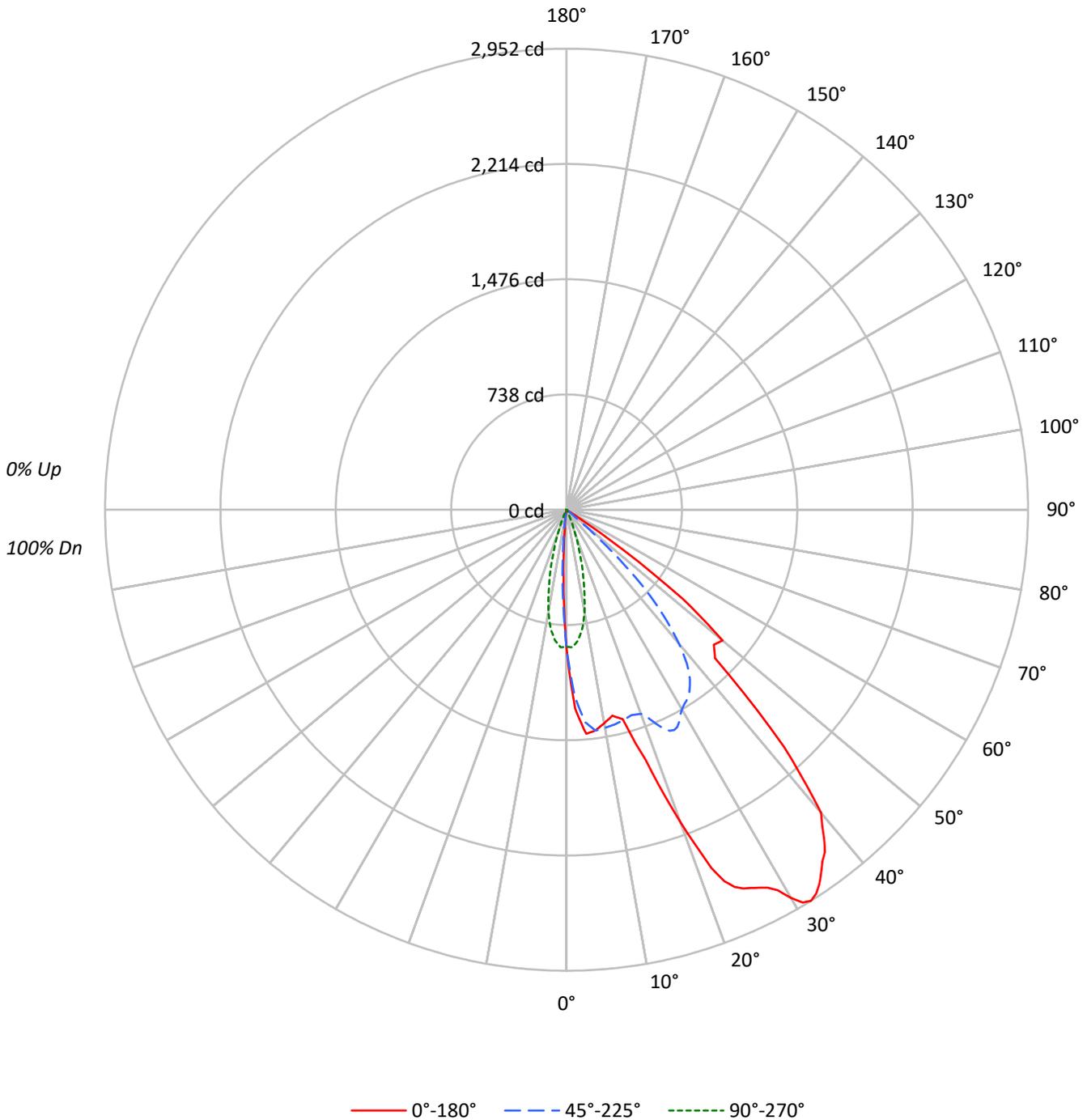
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1413.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1311683
CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1311683

CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	151091	151091	151091	151091	151091
5°	248948	236241	145202	43134	21558
10°	242610	247944	116347	2186	2903
15°	247353	248851	69679	2229	749
20°	389900	254771	28701	0	0
25°	508302	296822	6841	0	0
30°	570525	293526	278	0	0
35°	597054	289066	0	0	0
40°	569583	251147	0	0	0
45°	327101	165742	0	0	0
50°	349060	18943	0	0	0
55°	99446	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	705	0	0
75°	0	932	932	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 361199 cd/sqm



TEST NUMBER: P1311683

CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	5.2
10°-20°	185.6	13.1
20°-30°	356.6	25.2
30°-40°	415.0	29.4
40°-50°	297.0	21.0
50°-60°	82.7	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	615.9	43.6
0°-40°	1030.9	73.0
0°-60°	1410.6	99.8
0°-90°	1413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	877	877	877	877	877	
5°	1440	1366	840	250	125	132
15°	1387	1396	391	12	4	448
25°	2675	1562	36	0	0	1217
35°	2840	1375	0	0	0	1757
45°	1343	680	0	0	0	1263
55°	331	0	0	0	0	417
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1311683

CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3	877.3
2.5°	1275.1	1282.0	1283.4	1266.8	1269.5	1246.0	1247.4	1230.7	1190.5	1050.6	881.5
5°	1440.0	1435.8	1440.0	1434.5	1440.0	1426.1	1417.8	1410.9	1366.5	1168.4	839.9
7.5°	1424.8	1419.2	1427.5	1430.3	1440.0	1435.8	1437.2	1441.4	1426.1	1232.1	769.2
10°	1387.3	1386.0	1390.1	1390.1	1401.2	1402.6	1408.1	1416.4	1417.8	1254.3	665.3
12.5°	1351.3	1347.1	1347.1	1345.8	1351.3	1349.9	1363.8	1383.2	1409.5	1240.4	522.5
15°	1387.3	1383.2	1377.6	1362.4	1351.3	1338.8	1340.2	1352.7	1395.7	1204.4	390.8
17.5°	1678.4	1656.2	1628.5	1580.0	1528.7	1440.0	1387.3	1354.1	1379.0	1149.0	260.6
20°	2127.4	2117.7	2073.4	1994.4	1911.2	1780.9	1618.8	1488.5	1390.1	1079.7	156.6
21°	2297.9	2292.4	2245.2	2171.8	2077.5	1919.5	1753.2	1596.6	1412.3	1050.6	123.3
22°	2472.5	2451.7	2414.3	2332.6	2234.2	2076.2	1890.4	1717.2	1456.6	1013.1	94.2
23°	2584.8	2572.3	2532.1	2467.0	2372.7	2218.9	2029.0	1840.5	1499.6	971.6	70.7
24°	2643.0	2638.8	2607.0	2561.2	2480.9	2324.2	2144.1	1950.0	1535.6	923.0	51.3
25°	2674.9	2661.0	2641.6	2608.4	2547.4	2411.6	2250.8	2045.7	1562.0	874.5	36.0
26°	2694.3	2686.0	2655.5	2626.4	2568.2	2457.3	2320.1	2103.9	1568.9	814.9	24.9
27°	2716.5	2697.1	2668.0	2633.3	2568.2	2471.1	2346.4	2128.8	1560.6	754.0	16.6
28°	2740.0	2726.2	2686.0	2641.6	2564.0	2471.1	2336.7	2095.6	1535.6	695.7	9.7
29°	2785.8	2767.7	2717.8	2652.7	2565.4	2468.4	2299.3	2026.3	1502.4	630.6	5.5
30°	2868.9	2831.5	2770.5	2679.0	2575.1	2462.8	2236.9	1922.3	1476.0	557.2	1.4
31°	2934.1	2913.3	2842.6	2727.5	2602.8	2447.6	2163.5	1819.8	1458.0	493.4	0.0
32°	2952.1	2936.8	2885.5	2777.4	2649.9	2435.1	2080.3	1720.0	1444.2	422.7	0.0
33°	2931.3	2921.6	2867.5	2769.1	2662.4	2418.5	1984.7	1621.6	1428.9	359.0	0.0
34°	2892.5	2880.0	2832.9	2733.1	2630.5	2346.4	1893.2	1546.7	1406.7	299.4	0.0
35°	2839.8	2830.1	2781.6	2683.2	2572.3	2234.2	1801.7	1496.8	1374.9	239.8	0.0
36°	2783.0	2780.2	2717.8	2620.8	2497.5	2126.0	1690.9	1459.4	1343.0	189.9	0.0
37°	2745.6	2731.7	2663.8	2568.2	2408.8	1999.9	1602.2	1446.9	1298.6	146.9	0.0
38°	2677.7	2680.4	2602.8	2515.5	2318.7	1890.4	1530.1	1437.2	1248.7	106.7	0.0
39°	2597.3	2598.7	2518.3	2443.4	2212.0	1775.4	1470.5	1427.5	1186.4	67.9	0.0
40°	2533.5	2532.1	2440.7	2360.3	2096.9	1667.3	1438.6	1413.7	1117.1	38.8	0.0
42.5°	2059.5	2067.8	2078.9	2112.2	1826.7	1477.4	1408.1	1336.1	920.3	0.0	0.0
45°	1343.0	1374.9	1383.2	1483.0	1481.6	1399.8	1336.1	1197.5	680.5	0.0	0.0
47.5°	1277.8	1287.5	1305.6	1344.4	1365.2	1325.0	1194.7	1000.7	371.4	0.0	0.0
50°	1302.8	1301.4	1305.6	1305.6	1268.1	1164.2	979.9	738.7	70.7	0.0	0.0
52.5°	935.5	970.2	1007.6	1024.2	975.7	866.2	715.2	433.8	0.0	0.0	0.0
55°	331.2	320.2	311.8	340.9	334.0	375.6	310.5	101.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	5.5	12.5	16.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8



TEST NUMBER: P1311683

CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1311683
 CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	877.3	877.3	877.3	877.3
2.5°	702.7	539.1	436.6	443.5
5°	493.4	249.5	153.8	124.7
7.5°	295.2	76.2	15.2	12.5
10°	138.6	12.5	13.9	16.6
12.5°	41.6	11.1	15.2	13.9
15°	11.1	12.5	6.9	4.2
17.5°	4.2	5.5	0.0	0.0
20°	2.8	0.0	0.0	0.0
21°	2.8	0.0	0.0	0.0
22°	1.4	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	1.4	0.0	0.0



TEST NUMBER: P1311683
CATALOG NUMBER: LDSQA3D17R509040DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	1.4	0.0	0.0
85°	1.4	1.4	0.0	0.0
87.5°	1.4	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)